```
-----MSSEVKOLIVVAEGTAALGPYWOTIVSDYLEKIIRSFCGSELNGERNP--
PFT1 A.thaliana
                           -----MSSEVKQLIVVAEGTAALGPYWQTIVSDYLEKIIRSFCGSELNGERNP--
PFT1 A.lyrata
MED25_H.sapiens MVPGSEGPARAGSVVADVVFVIEGTANLGPYFEGLRKHYLLPAIEYFNGGPPAETDFG-G med25_X.laevis ----MDAATPGNGIISDVVFVIEGTANLGPYFESLRKHYLLPAIEYFNGGPPAETDFG-G MED25_D.melanogaster ------MEVDQIPLADVVFVIEGSAINGAYINELKTNYILPTLEHFTTGSIDEREYLIA
                                             .::.. **:* * :
PFT1 A.thaliana
                         -VSTVELSLVIFNSHGSYCACLVQRSGWTRDVDIFLHWLSSIQFGGGGFN-EVATAEGLA
PFT1 A.lyrata
                           -VSTVELSLVIFNSHGSYCACLVQRSGWTRDVDIFLHWLSSIQFGGGGFN-EVATAEGLA
PFT1_P.trichocarpa
MED25_S.lycopersicum
PFT1 P.trichocarpa
                           -TSSAELSLVTFNSHGSYSACLVQRSGWTRDVDIFLHWLSAIPFAGGGFN-DAAIAEGLS
                            -AADVEVSMVMFNTHGPYSACLVORSGWTKDMDTFLOWLSAIPFSGGGFN-DAAVAEGLA
PFT1 O.sativa
                            -GTPPELALVVFHTHGPYSAFCVQRSGWTKDMNVFLSWLSGISFSGGGFS-EAAISEGLA
MED25 H.sapiens
                          DYGGTQYSLVVFNTVDCAPESYVQCHAPTSSAYEFVTWLDGIKFMGGGGESCSLIAEGLS
med25_X.laevis DYGGTQYSLVVFNTVDCAPESYVQCHAPTSSAYEFVQWLDSIKFMGGGGESCSLIAEGLS
MED25_D.melanogaster ERFATLYGIVVYRTAANLLEPVCSTYGPFLQPQKVMETIERLPLVGGGMESCAHMAEGFA
                                                     . . . .: :. : *** .
                           EALMMFS--PPSGQAQPSNDLKRHCILITASNPHILPTPVYRPRLQNVERNENGDAQAES
PFT1_A.thaliana
PFT1 A.lyrata
                            EALMMFS--PPSGQAQPSNDLKRHCILITASNPHTLPTPVFRPRLQSVERNENGDAQAES
PFT1 O.sativa
                           EALMILQGSSSNSQNHQSHEVQKHCILVAASNPYPLPTPVYRPLVQSSDHKENNDGAKES
                          TALQLFDDFKKMREQIGQT--HRVCLLICNSPPYLLPAVESTTY-----
MED25 H.sapiens
: . :: *:*: * *: :*:
PFT1 A.thaliana
                          RLSDAETVASYFAKCSVSLSVVCPKQLPTIRALYNAGKPNQQ--SADLSIDTAKNTFYLV
PFT1_A.lyrata RLSDAETVASYFAKCSVSLSVVCPKQLPKIRALYNAGKLNPQ--SADLSIDTAKNTTYLV
PFT1_P.trichocarpa RLSDAETVASYFAKCSVSLSVICPKQLPKLRLIYNAGKRNSR--AADPPVDNIKNPHFLV
MED25_S.lycopersicum RLADAETVAKTFPQCSISLSVICPKKLPKLRAIYDAGKHNPR--AADPPIDTAKNPNFLV
PFT1_O.sativa CLADAETVAKSFAQCSVSLSVVSPKQLPTLKAIYNAAKRNPR--AADPSVDHAKNPHFLV
MED25_H.sapiens
med25 X.laevis
                            SGCTTENLVQQIGERGIHFSIVSPRKLPALRLLFEKAAPPALLEPLQPPTDVSQDPRHMV
med25_H.sapiens SGCTTENLVQQIGERGIHFSIVSPRKLPALRLLFEKAAPPALLEPLQPPTDVSQDPRHMV med25_X.laevis SGYTTENLVQKIGERGIHFSIISPRKLPALRTLFEKAMPVGLIEPQ--PKDYSQDPRHMI MED25_D.melanogaster PGKSCEQLAALFNERKINLSIIAPRKMPVLFKLFMKADGDQPI----TSKNYAKNIRHLV
                                  * :. : : : *::.*::* : : .
PFT1 A.thaliana
                          LISENFVEACAALSHS-ATNLPQTQSPVKVDRATVAPSIPVTGQPPAPVSSANGPIQNRQ
PFT1 A.lyrata
                           LISENFVEARAALSHS-ATNLPQTQSPVKVDRATVAPSLPVTGQPPAPVTSANGPIQNRQ
PFT1_P.trichocarpa
                            LISENFMEARAALSRPGATSLPSNOTPVKVDIASV---TSVTGPLPASIPSVNGSITNRP
MED25_S.lycopersicum
PFT1 O.sative
                            LISENFIEARAAFSRSGLTNLASNHSPVKMDVSSV---LPVSGTQSISNSAANVSVISRP
                          LLSDNFLEARTALSRPLPGNLVTNHPITKMDTAATSVP----VPTSNGNPSVNGPMLTRO
MED25 H.sapiens
                          LVRGLVLPVGGGSA-PGPL--QSKQPVPLPPAAPS------
med25_X.laevisLVRGMVLPVGGATSVPGVM--PPKQHISQPPLPVV------QQQQQ------QQMED25_D.melanogasterLLKGYSLKERAPSP--NSM--AAQMAAPNAAQATV------QQQQQ------QQ
PFT1 A.thaliana
                            PVSVGPVPTATVKVEPSTVTSMAPVPSFPHIPAVARPATQAIPSIQTSSASPVSQDMVSN
PFT1 A.lyrata
                            PVSVGPVPTATVKVEPSTVTSMAPVPNFPHIPSVARPATOPIPSIOTSSASPVSODMVTN
MED25_H.sapiens
med25_X.laevis
                          -----GATLSAAPQQP------
AENAPDIKPVVVSGMTPPLRTGPPGGANVNLLNNLSQVRQVMS-----SAALAGAAS-
PFT1 A.thaliana
PFT1 A.lyrata
                            AENAPDIKPVVVGGMTPPLRTGPPGGANVNLLNNLSQVRQVMS-----SAALAGAAS-
PFT1_A.lyrata AENAPDIKPVVVGGMTPPLRTGPPGGANVNLLNNLSQVRQVMS-----SAALAGAAS-
PFT1_P.trichocarpa GENAQDLKPNVSV-TTQSARSAPPAAANVNILNNLSQARQVMN-----SAALSGGTSI
MED25_S.lycopersicum TENVQEMKPIVS-GMTQSLRPVAAAAANVKILNGVAQAHQV------LGGGTSI
PFT1_O.sativa NDSVQEHKPLINP-IQQSIRP--GGPANVSILNNLSQHRSVAT------II--SGG-MP
PFT1_O.sativa
MED25_H.sapiens
med25 X.laevis
                           -----LPPVPPQYQV-P------GN-LSAAQVAAQ---NAV-EAAKNQKAGL
                          -----LPPVQPPYMQVP------QQST-LTPAHAAAH---SAV-EAAKNQKNSP
MED25_D.melanogaster
                          {\tt TMQQQQPGPNPPAGLLNP------QQQQQLLQQQQQNQFVSNQMQNQNFQQNVGP}
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* ::

PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	SVGQSAVAMHMSNMISTGMATSLPPSQTVFSTGQQGITSMAGSGALMGSAQTSAGQSAVAMHMSNMISTGMATSLPPSQTVFSTGQQGITSMAGSGALMGSAQT GLPSINQTSVAMHMSSMISSGMTSSVPAAQTVFSSGQPGVSSITGSGNLTGTTQI GLQSMGGTPMLSSMISSGMASSVPASQAVLSSGQSGVTTMTGAVPLAGSAQN GIPMSGTGQSIGSQQV -GPRFSPITPLQQAAPGVGPPFSQ -SNRFLLPNLNPMPNAPAVGTPFNQ GQNRW
PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	GQSPGPNNA-FSPQTT-SNVASNLGVSQP
PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	SHSGAMMQGGISMNQNMMSGLGQGNVSSGTGGMMPTPGVGQQ SQSAMSGLGTNPNTMSGSGAQMVQSGMGANPNTMSGLGASGVSSGSNTMIPTPGMSQQ SQSAMSGLGTNPNTMSGSGAQMVQSGMGANPNTMSGLGASGVSSGSNTMIPTPGMSQQ SGPPVTQGGSMGSTQLGQGGINTNQNMLTGLGATGLPSGTGTMMPTPGMAQQ STV-APGSGLAP-TA
PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	AQSGIQQLGGSNSSAPNMQLSQPSSGAMQTSQSKYVKVWEGNLSGQRQGQ AQSGIQQLGGSNSSAPNMQLSQPSSG
PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	PVLITRLEGYRSASASDSLAANWPPTMQIVRLISQDHMNNKQYVGKA PVLITRLEGYRSASASDSLAANWPPTMQIVRLISQDHMNNKQYVGKA PVFITRLEGYRSASASETLAANWPPTMQIVRLISQDHMNNKQYVGKA PVFITRLEGYRSASASESLAANWPPTMQIVRLISQDHMNNKQYVGKA PVFICKLEGYRSGTASETLAADWPETMQIVRLIAQEHMNNKQYVGKA PASVDANTKLTRSLPCQVYVNHGENLKTEQWPQKLI-MQLIPQQLLTTLGPLF-RNS SVSVDNNAKLTRSLPCQVYINPGENLKTDQWPQKLI-MQLIPQQLLTTLGPLF-RNS SDQQKIPHTLQCTVCTNIKDGEPEIKAENWPPKLL-MQLMPKHLVGNIGGQFLKDS : ::** :: :: :: :: :: ::
PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	DFLVFRAMSQHGFLGQLQDKKLCAVIQLPSQTLLLSVSDKACRLIGM DFLVFRAMSQHGFLGQLQDKKLCAVIQLPSQTLLLSVSDKACRLIGM DFLVFRAMNQHGFLGQLQEKKLCAVIQLPSQTLLLSVSDKACRLIGM DFLVFRAMNQHGFLSQLQEKKLCAVIQLPSQTLLLSVSDKACRLIGM DFLVFRTLNQHGFLGQLQEKKLCAVIQLPSQTLLLSVSDKAGRLIGM RMVQFHFTNKDLESLKGLYRIMGNGFAGCVHFPHT
PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	LFPGDMVVFKPQIPNQQQQQQQQLQQQQQQQQQQQQQQQQQDHLQQQQMPQLQQQQ LFPGDMVVFKPQIPNPQQQQQQQQQQQQQQQQQQQQQQQQHLQQQQMPQLQQQQ LFPGDMVVFKPQISSQQQMQQQHHQQQQQHPQLQ

PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	$ \begin{array}{llllllllllllllllllllllllllllllllllll$
PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	
PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	NQMQ
PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	F-AQAPGRSQQ-GGGGGQPNMPGAGFMG
PFT1_A.thaliana PFT1_A.lyrata PFT1_P.trichocarpa MED25_S.lycopersicum PFT1_O.sativa MED25_H.sapiens med25_X.laevis MED25_D.melanogaster	